

60 inch Telescope log  
 Observer: P. Berline  
 PI: Green  
 Spectrograph: FAST  
 Grating: 3002, 3" slit  
 Date: 11/18/98  
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Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-10	BIAS				0s	bin by 2
11-20	FLAT				16s	filt = 590.0
21-30	FLAT				12s	filt = 610.0
31-40	BIAS				0s	
41-50	FLAT				6s	sparky lock-up.
51-53	HD 186047	19:40	+32:37	104	3s	
54	COMP			↑		clouds to W
55-57	HD 190606	20:05	+20:38	104	5s	
58	COMP			↑		
59-61	HD 193768	20:18	+37:26	104	5s	
62	COMP			↑		
63-65	HD 195665	20:34	+32:33	104	5s	
66	COMP			↑		
67-69	HD 198651	20:50	+45:25	104	5s	
70	COMP			↑		
71-73	HD 238661	21:55	+57:29	104	5s	
74	COMP			↑		Hand paddle S. button broke
75-77	HD 209512	21:51	+50:30	104	5s	change paddles
78	COMP			↑		
79-81	BDP 284211	21:48	+28	56	30s	
82				↑		
83	NT 331	22:34	+74:49	57	2m	
84	COMP			↑		
85	ZM 2205515	22:05	+26:36	68	5m	
86	COMP			↑		
87	ZM 2206039	22:06	+26:09	68	5m	
88	COMP			↑		
89	ZM 2209439	22:09	+26:26	68	5m	
90	COMP			↑		

NO BIN BY 4 DARKS  
 USED BIN BY 4 DARKS FROM 11/14/98

60 inch Telescope Log  
 Observer: PB  
 PI: Huchra & Andi  
 Spectrograph: FAST  
 Grating: 300L  
 Date: 11/18/98  
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
91	ZM221430.6	22:14	+13:04	68	5m	
92	COMP			↑		
93	ZM221440.4	22:14	+13:52	68	5m	
94	COMP			↑		
95	ZM221453.7	22:14	+16:25	68	6m	bn by 2, * to E ..
96	COMP			↑		
97	ZM221527.3	22:15	+13:51	68	4m	* to W
98	COMP			↓		
99	ZM221533.9	22:15	+24:45	68	4m	
100	COMP			↑		
101	ZM221549.8	22:15	+17:40	68	3m	
102	COMP			↑		
103	E-1201.57103	01:21	+01:40	55	20m	redo from 11/13/98 #93 ok
104	COMP			↑		
105	sig b102.034	01:23	+03:07	59	20m	
106	COMP			↑		
107	031	01:22	+02:33	59	15m	emp pec
108	COMP			↑		
109	009	01:20	+01:21	59	20m	
110	COMP			↑		
111	43	01:23	+00:40	59	5m	
112	COMP			↑		
113	41	01:23	+01:57	59	10m	
114	COMP			↑		
115	42	01:23	+01:33	59	5m	
116	COMP			↑		
117	44	01:23	+02:51	59	10m	emtt
118	COMP			↑		
119	46EW	01:23	+02:04	59	6m	2 gals
120	COMP			↑		



60 inch Telescope Log

Observer: PB

Spectrograph: FAST

Grating: 3000

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PI: Andi

Date: 11/18/98

Number	Object	R.A.	Dec.	L/R	Exp	Comments
121	Sreg 6102077	01:23	+02:07	S9	8m	bin by 2; * to W
122	WMP			T		↑ pec +
123	651	01:24	+01:02	S9	6m	
124	WMP			T		
125	654	01:24	+01:45	S9	4m	
126	WMP			T		
127	r 61	01:24	+01:43	S9	3m	
128	WMP			T		
129	55	01:24	+01:38	S9	6m	front gal to E
130	WMP			T		
131	56	01:24	+02:13	S9	6m	
132	WMP			T		
133	57	01:24	+01:28	S9	5m	
134	WMP			T		
135	58	01:24	+02:30	S9	5m	
136	WMP			T		
137	59	01:24	+01:20	S9	6m	
138	WMP			T		
139	62	01:24	+02:02	S9	2m	
140	WMP			T		
141	69	01:24	+01:50	S9	10m	
142	WMP			T		
143	65	01:24	+01:22	S9	5m	
144	WMP			T		
145	66	01:24	+02:04	S9	5m	
146	WMP			T		
147	68	01:24	+01:36	S9	2m	
148	WMP			T		
149	69	01:24	+01:54	S9	2m	
150	WMP			T		

60 inch Telescope Log

Observer: PB  
 PI: Hartmann

Spectrograph: FAST  
 Grating: 3002  
 Date: 11/18/98

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
151,153	SN1998cs	01:37	+05:52	2	15m, 8m	filt=590.01; PA=30
152,154	COMP			↑		oops bin by 4 (and by 2)
155,156,1	G 19182B	05:01	+52:45	56	2m	PA=56 #7
157	COMP			↑		
158	quasar 3091	02:51	+40:16	35	15m	PA=90 filt=610.0 ↓ sep + OK all gal redo from 11/13 <u>em</u>
159				↑		
160	test					
161,163,165	Tau 3NW m55m57	04:39	+25:51	102	20m	PA=49 <u>EW</u>
162,164,166				↑		both #'s (row 59)=57 255 (rows)
167,169	Tau 3NW m2	04:40	+25:46	102	15m	PA=90
168,170	COMP			↑		
174,173	Tau 3NW m 85	04:40	+25:53	102	20m	
172,174	COMP			↑		
175-176	Hiltner 60	06:42	+02	56	4.5s	
177	COMP			↑		
178-180	CS Cam	04:19	+55:69	109	2s, 20s, 90s	
181	COMP			↑		
182	SN1998new	06:59	+57:44	2	20m	type II faint! 19?
183	COMP			↑		
184	a539.045744	04:57	+02:51	64	10m	redo from 11/15/98
185	COMP			↑		
186	.05163x	05:16	+06:25	69	20m	bin by 2; * to W
187	COMP			↑		
188	.051649	05:16	+06:23	69	5m	clouds to the N
189	COMP			↑		
192	.051658	05:16	+06:09	69	8m	SD gal %
193	COMP			↑		
194	.051658	05:16	+06:29	69	6m	
195	COMP			↑		
190	a539.051653	05:16	+04:41	69	5m	
191				↑		

60 inch Telescope Log

Observer: PD

PI: Dan

Spectrograph: FAST

Grating: 300L

Date: 11/18/98

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
196	G 539.051711	05:17	+05:48	64	9m	200
197	COMP			f		
198	G 539.051703	05:17	+05:06	64	15m	259
199	COMP			f		
200	.051718	05:17	+05:45	64	8m	k. to G. W
201	COMP			f		
202	.051654	05:16	+06:10	64	15m	258
203	COMP			f		
204-206	HA0535026	05:38	+26:58	104	30s	11" slit ↓
207	COMP			f		
208-9	HD39478	05:53	+26:25	104	10s	
210	COMP			f		
211	Gwm1.001	09:16	+20:11	35	90s	3" slit ↓
212	COMP			f		
213	.002	09:17	+20:01	35	90s	
214	COMP			f		
215	3	09:17	+19:54	35	90s	
216	COMP			f		
217	4	09:13	+20:39	35	100s	
218	COMP			f		
219	5	09:19	+20:19	35	100s	
220	COMP			f		
221	7	09:16	+19:56	35	10m	LSB em
222	COMP			f		
223	9	09:17	+20:02	35	100s	
224	COMP			f		
225	10	09:15	+20:55	35	3m	
226	COMP			f		

60 inch Telescope Log

Observer: PB  
 PI: Dan

Spectrograph: FAST  
 Grating: 300R  
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
227	awml_011	09.18	+20.17	35	3m	
228	COMP			↑		
225	12	09.15	+19.41	35	2m	blue
230	COMP			↑		
231	13	09.14	+20.07	35	3m	
232	COMP			↑		
233	14	09.16	+20.01	25	3m	
234	COMP			↑		
235	15	09.16	+19.50	35	2m	
236	COMP			↑		
237-9	HD 52971	06.57	+27.13	57	4s	
240	COMP			↑		
241-243	AGK2, 1483	09.	22	57	4s	
244	COMP			↑		
245-7	HD 57300	07.08	+10.01	106	4s	
248	COMP			↑		
249-9	HD 55284	07.12	+14.35	106	4s	
252	COMP			↑		
253-255	HD 47883	06.46	+18.26	106	4s	
256	COMP			↑		
257-259	HD 16687	06.42	+31.27	106	0.5s	
260	COMP			↑		
261-263	HD 76221	08.55	+17.14	106	0.5s	
264	COMP			↑		
265-274	BIAS				0s	
275-284	FLAT				6s	
285-294	BIAS				0s	
295-304	FLAT				12s	
305-314	FLAT				20s	1.1" slit 6m by 4
315-324	DARK				20m	6m by 2